# **Activity 06 - Networking**

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### **Listing networks**



## The default bridge network

```
C:\Users\Abby0803>docker network inspect bridge
            "Name": "bridge",
"Id": "7f7d67f17244a4d4ec3fc291a8928721e06b76cbb1cc46c6fad6a57144930fdd",
            "Created": "2021-06-14T05:29:19.885251Z",
"Scope": "local",
"Driver": "bridge",
             "EnableIPv6": false,
             "IPAM": {
                    "Driver": "default",
"Options": null,
                    "Config": [
                                 "Subnet": "172.17.0.0/16", 
"Gateway": "172.17.0.1"
            },
"Internal": false,
"Attachable": false,
"Ingress": false,
"ingress": {
             "ConfigFrom": {
    "Network": ""
            },
"ConfigOnly": false,
"Containers": {
                     "c39f18cd323538ba004b73561d4388732a4e5a4dedb0b84e604a7a38347f4e14": {
                           "Name": "apache",
                          "EndpointID": "2771b30a24962770ac1d26cadc84d99b0cfee84a90d224d2f2bcca6e41fa44ba",
"MacAddress": "02:42:ac:11:00:02",
"IPv4Address": "172.17.0.2/16",
"IPv6Address": ""
            "com.docker.network.bridge.default_bridge": "true",
"com.docker.network.bridge.enable_icc": "true",
"com.docker.network.bridge.enable_ip_masquerade": "true",
                   "com.docker.network.bridge.host_binding_ipv4": "0.0.0.0",
"com.docker.network.bridge.name": "docker0",
"com.docker.network.driver.mtu": "1500"
            },
"Labels": {}
```

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```
}

**Options": {
    "com.docker.network.bridge.default_bridge": "true",
    "com.docker.network.bridge.enable_icc": "true",
    "com.docker.network.bridge.enable_icc associated ": "true",
    "com.docker.network.bridge.enable_ip_assoquerude": "true",
    "com.docker.network.bridge.pud": "00.0.0",
    "com.docker.network.bridge.name": "docker0",
    "com.docker.network.dridge.name": "docker0",
    "com.docker.network.driver.stu": "1500"

},

**Labels": {}

}
```

```
C. Users Vabby08033-docker run --rm -d -e PING.TAKGT=TX.T.7.8.2 --name pinger 201801325/ping:1.0

C. Users Vabby08033-docker ps
COMTAINER ID 1946

COMTAINER ID 1946
```

## Managing custom networks

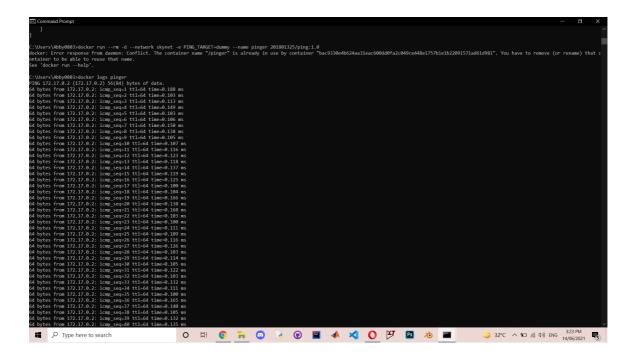
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```
Command Prompt
C:\Users\Abby0803>docker network create skynet
9aa68d22344cb1c89bcb598d234ec7544dbef016a4c3caff7046ceb0a122ebd1
C:\Users\Abby0803>docker network ls
NETWORK ID
                    NAME
                                   DRIVER
                                                  SCOPE
7f7d67f17244 bridge
                                    bridge
                                    host
                    host
none
ce79a901067c
                                                   local
e1eb06ece48d
                                   null
                                                   local
9aa68d22344c skynet
                                   bridge
                                                  local
C:\Users\Abby0803>docker network inspect skynet
           "Name": "skynet",
"Id": "9aa68d22344cb1c89bcb598d234ec7544dbef016a4c3caff7046ceb0a122ebd1",
"Created": "2021-06-14T07:21:16.4847386Z",
"Scope": "local",
"Driver": "bridge",
           "EnableIPv6": false,
           "IPAM": {
                AM : {
    "Driver": "default",
    "Options": {},
    "Config": [
                            "Subnet": "172.18.0.0/16",
"Gateway": "172.18.0.1"
           },
"Internal": false,
"Attachable": false,
"occs": false,
           "Ingress": false,
"ConfigFrom": {
    "Network": ""
          },
"ConfigOnly": false,
"Containers": {},
"Options": {},
"Labels": {}
```

Adding containers to a network

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### Connecting between containers in a network

## Binding ports to the host

```
C:\Users\Abby0803>docker run --rm -d --name widgetdb -e POSTGRES_PASSWORD=password --network skynet -p 5432 postgres
5419c27bff3125b460196ac953b29f565b3a195706db5e37cf6f383595373a1f
C:\Users\Abby0803>psql -U postgres -h localhost
'psql' is not recognized as an internal or external command,
operable program or batch file.
```

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